Creating R20 files from d4 personalities

(This is NOT an official documentation but simply based on my personal experiences - it might be not complete or even simply wrong in some aspects. Please give feedback if you find anything that you think should be improved.)

R20 files had been the personalities for the Classic consoles from the Pearl 2000 on. After production of the Classic consoles was stopped, Avolites also ceased to offer free personality service for this system in 2019. You can still download the existing personalities, but no new ones will be created.

This page is intended to be helpful when you need a new personality for a fixture which isn't in the library for classic consoles but does exist as d4 file for the Titan system.

The Pearl 2008 and Tiger Manual contains a highly recommended section (sect. 14) about how personality files need to be written and what each entry does.

Items currently $\ensuremath{\textbf{NOT}}$ covered by this page are

- conditions in d4 files (need to be stripped for R20 files)
- 16bit dimmers
- compatibility attributes

Preliminary Considerations

It is good to understand the main differences (with regards to personalities) between the old Classic system and the new Titan system. When using the Personality Builder to export R20 files from existing d4 files you most likely need to correct some details following these points.

- 1. With R20 files, **each mode requires a separate personality file**, while in the d4 world there is only one file per fixture, holding all the modes.
- No Virtual Dimmers in Classic! In Titan you can define a dimmer channel which doesn't exist in the fixture, to proportionally dim e.g. red/green/blue colour channels. This is not possible on Classic consoles, and thus not supported in R20 files.
- 3. **No cells/subfixtures in Classic!** Nowadays there are numerous fixtures available with many individually controllable pixels or other parts, and in Titan there is a mechanism where you can control all such parts simultaneously (as Master channels) or individualle (as subfixtures or cells). This is not possible in Classic. As such, cell modes as well as modes using cells are not supported in R20 files. There is a special feature called compatibility attributes which attempts to spread out all such attributes onto available attribute banks but this is currently not covered from this explanation.
- 4. **No Conditions in Classic!** In Titan it is rather common to have a virtual function-select attribute which controls how other attributes can be adjusted, e.g. a wheel Gobo Func where you can select Index, Scroll and Shake, and the Gobo wheel itself then shows only a subsection of all the Gobo values. This is not possible in Classic.
- 5. **No 16 bit Dimmer in Classic!** While in theory this should be possible, in reality there is an issue in the software which doesn't allow such dimmers to be dimmed down to 0. Thus you might need to reduce the resolution to 8 bit and put the extra channel elsewhere.
- 6. Two wheels only in Classic! While there are at least three control wheels on Titan consoles

and it is easy to add and operate attributes on multiple pages, Classic consoles have only two wheels, and spreading attributes across pages is best avoided.

7. Classic wheel mapping not stored in d4 files! Subsequently to the previous point the wheel mapping (i.e. how the attributes are laid out onto the wheels) for Classic consoles is in most cases different from the mapping in Titan. However, as the d4 file format is targeted towards Titan, it doesn't provide means to store the mapping for Classic consoles. The personality builder has the option to export and import this as separate xml file in File ⇒ Export ⇒ Pearl Mapping. But you need to keep track of such files if you are using this.

1. Check if there really doesn't exist one

Use the search on https://personalities.avolites.com/ to check if there really doesn't exist what you need - downloading is always faster than attempting to do yourself.

2. Update your personality library

You certainly do not want to work with old data. Thus, download and install the latest Titan Fixture Library from https://personalities.avolites.com/.

3. Identify the correct d4 file

We assume that a d4 personality for your fixture already exists. Luckily they usually have verbose file names - have a look in the personality folder (with the PC suite installed it is C:\Program Files (x86)\Avolites\Titan\FixtureLibrary). If you don't find what you need then search at https://personalities.avolites.com/ or https://www.avolites.de/downloads/d4find for the correct filename. If you still don't find anything then request the personality for Titan or build it yourself (this might be explained on another day).

If you have found the correct d4 file copy it to a suitable location, e.g. your desktop, and open it in the Titan Personality Builder.

If you want to try it yourself then, as an example, you can download and open the personality of the

Prolight Equinox Fusion 260ZR

. The PersoBuilder will open with the whole tree collapsed, and the Attributes (top) and Properties (bottom) tabs selected:

Prolight Equinox Fusion 260ZR - Pers File Edit View Tools Help	onality Builder			-	
Equinox Fusion 260ZR History Manual	+ Generic	+ Reserved	Current Functions	History Mo	odes Mac · ·
Physical ⊕ ∯ Attributes ⊕	Pan Colour Colour Macro	ମ୍ମିନୁ Tilt Colour 1 ✔ Gobo	Shutter Colour 2 Gobo Rot		*
⊕► Macros ⊕ 🌮 Palettes	Fixture Manufacturer		Prolight		^
	Name		Equinox Fusion	260ZR	~
	Name Name of this fixture				
	Properties DMX Value	es Channels W	heel Mapping Locate	e Values Ce	ls
					.:

4. Identify modes, enter references

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As stated above the Classic system cannot handle some specific things which came with Titan. One of them are cells and subfixtures. Thus, cell modes as well as modes referencing those cannot be exported as R20 (we omit the 'Compatibility Attributes' workaround for the moment).

In the left-hand pane expand the Modes section by clicking on the + sign. Now it will look like this:

2012 Prolight Equinox Fusion 260ZR - Personali	ty Builder	- 🗆 X
File Edit View Tools Help		
Equinox Fusion 260ZR	Attributes Functions Created Attributes	Current Functions History Modes Max • •
Manual Physical Attributes	+ Generic + Reserved Pan Pan Tit Colour Colour 1	Dimmer A
िक. Modes िक. 2 DMX िक. 8 DMX	Colour Macro Gobo	Gobo Rot v
⊞- <u>-</u> 17 DMX	Manufacturer	Prolight ^
@2 25 DMX ⊛ ♣ Cell	Name	Equinox Fusion 260ZR
in ▶ Macros in	Name Name of this fixture	
	Properties DMX Values Channels Whee	el Mapping Locate Values Cells
		.:

One by one expand each mode (you might enlarge the PersoBuilder's window for a better overview), and identify the modes which you want to and can export as R20 file:

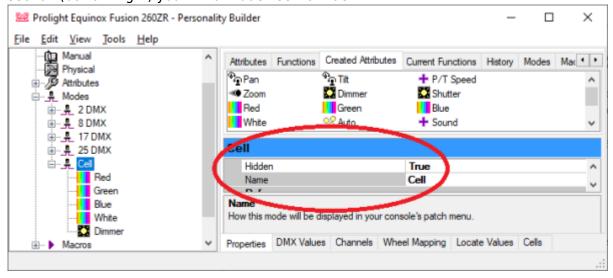
- the **2 DMX** mode features only Auto and Sound as attributes. You will hardly use this at all. Let's just skip it.
- the **8 DMX** and **17 DMX** modes look promising. We'll attempt to export those as R20.

Prolight Equinox Fusion 260ZR - P File Edit View Jools Help	ersonali	ty Builder			-		×
e - ♣ Modes e - ♣ 2 DMX - ♣ 8 DMX - ♣ 8 DMX - ♣ 7 Tit - ♣ Zoom - ♥ Dimmer	^	Colour Colour Macro	Created Attributes + Reserved Tit Colour 1 Gobo	Current Functions	History	Modes	Mac
	*	Name Name Name of this fixture Properties DMX Value	s Channels Whe	Prolight Equinox Fusion		Cels	\$

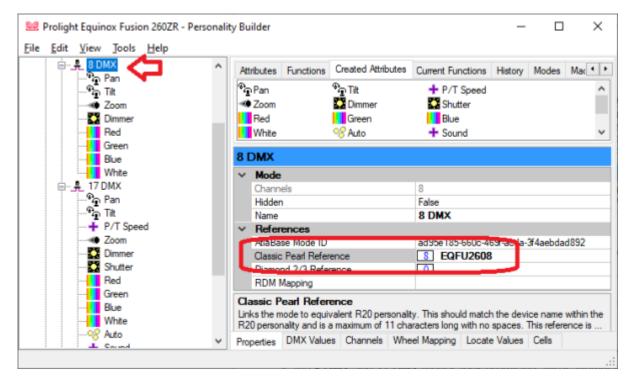
• the **25 DMX** mode contains the sections Cell Master, Cells, and Compatibility Attributes (here empty) - this is a mode which uses cells, and thus cannot be exported as R20.

Prolight Equinox Fusion 260ZR - Personal	ty Builder	- 🗆 X
	Attributes Functions Created Attributes Current Function + Generic + Reserved Immer + Pan + Tit Immer + Colour + Colour 1 Immer - Colour - Colour 1 Immer - Colour - Colour 1 Immer - Colour - Colour 2 Colour 2 - Colour Macro Colou Colour 3 Colour 3	^
⊕17 DMX ⊕25 DMX ⊕26 Cell Master	Manufacturer Prolight Name Equinox Fue	sion 260ZR
Cells Compatibility Attributes Gel Macros	Name Name of this fixture Properties DMX Values Channels Wheel Mapping Lo	ocate Values Cells
III. Macros	rioponea	

 finally the Cell mode is the one which is only referenced in the 25 DMX mode. proof for this is the Hidden attributes set to true: left, click on the mode Cell itself, and in the properties section (bottom right) you'll find Hidden set to True:



In order to make the selected modes exportable they each need a distinct Classic Pearl Reference. While it is possible to use up to 11 characters life is much easier if you restrict this to 8 characters. It is good practice to use the first 2 characters for an abbreviation for the manufacturer, characters 3~6 for the fixture name, and the last two for the DMX mode. Here let's use **EQ**uinox **FU**sion **26**0ZR **08** (DMX), or **EQFU2608**, and **EQFU2617** respectively. In PersoBuilder, left, click on the mode, in the properties tab (bottom-right) find Classic Pearl Reference, and enter the references we have found.



Do so for each mode which you plan to export as R20.

5. Check Wheel Mapping

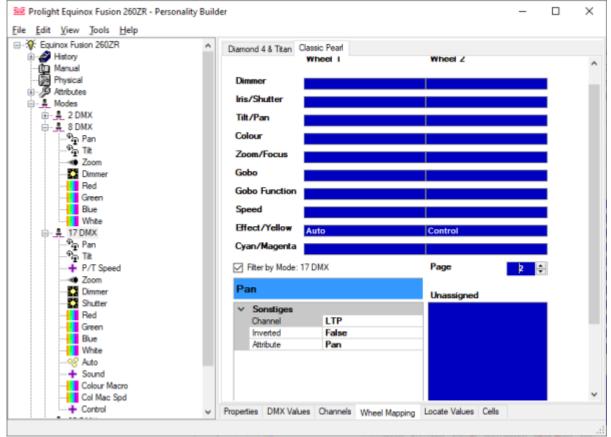
Unlike Titan consoles classic only features 2 encoder wheels, and the attribute banks are structured differently. Obviously wee need to check the wheel mapping – the way how the attributes are laid out on the wheels and banks. In order to do this click on the Wheel Mapping tab on the bottom, enlarge the program window so that you have a good overview, select a mode on the left (pro tip: start with bigger modes, than smaller ones may also fit), then select the Classic Pearl tab on top-right, and tick the Filter by Mode checkbox. It will look like this:

201 Prolight Equinox Fusion 260ZR - Personality Buil	der			-		×
<u>File Edit View</u> Tools <u>H</u> elp		<u> </u>				
Equinox Fusion 260ZR	Diamond 4 & Tian	Classic Pearl				
HISTORY		t for B29 rile Export				~
- Manual	wheel Assignme					
		Wheel 1	Wheel 2			
⊕-∯ Attributes	Dimmer				_	
		Dimmer				
	Iris/Shutter					
Pan 🖓 Pan	Tilt/Pan	Tilt	Pan			
- Pa Tit	Colour		T GIT			
Zoom		Col Mac Spd				
🖸 Dimmer	Zoom/Focus	Zoom				
	Gobo					
Blue	Gobo Function					
	Gobo Function					
□ - # 17 DMX	Speed	P/T Speed	Sound			
	Effect/Yellow		Blue			
-Pp Tit						
+ P/T Speed	Cyan/Magenta	Red	Green			
Dimmer	Filter by Mode:	DMX	Page		i i	
			_			
Red	Pan		Unassigned			
Green	 Sonstiges 		Shutter			
Blue	Channel	LTP	Auto			
White	Inverted	False	Colour Macro Control			
	Attribute	Pan	Control			
+ Sound						~
	moneties DMX Vel	use Change Wheel March	Lorate share	Cells		
	Topenies DMX val	ues Chann s Wheel Mapping	g cotat aues	Cela		

In the righthand area you can now drag and drop each attribute, in order to move it to another bank and wheel. Usually the suggested mapping is a good starting point. The most important thing is to move attributes from the 'Unassigned' area (bottom right) onto a valid blue rectangle (defined by Wheels and attribute group). Also using the Page select box with arrow buttons you can toggle to more pages. My result looks this:

Diamond 4 & Titan Wheel Assignme Dimmer Iris/Shutter Tilt/Pan Colour Zoom/Focus	Classic Pearl Int for R20 File Export Wheel 1 Dimmer Tilt Col Mac Spd	Wheel 2 Shutter Pan Colour Macro		^
Wheel Assignme Dimmer Iris/Shutter Tilt/Pan Colour	nt for R20 File Export Wheel 1 Dimmer Tilt	Shutter Pan		^
Wheel Assignme Dimmer Iris/Shutter Tilt/Pan Colour	nt for R20 File Export Wheel 1 Dimmer Tilt	Shutter Pan		^
Dimmer Iris/Shutter Tilt/Pan Colour	Wheel 1 Dimmer Tilt	Shutter Pan		
lris/Shutter Tilt/Pan Colour	Dimmer Tilt	Shutter Pan		
lris/Shutter Tilt/Pan Colour	Titt	Pan		
Tilt/Pan Colour		Pan		
Colour		Pan		
Colour				
	Col Mac Spd	Colour Macro		
Zoom/Focus				
	Zoom			
Gobo				
Gobo Function				
Speed	P/T Speed	Sound		
Effect/Yellow	White	Blue		
Cvan/Magenta				
	neu			
Filter by Mode	17 DMX	Page	1 🖨	
Pan				
		Unassigned		
	1.70			
Attribute	Pan			
				~
Properties DMX Va	ues Channels Wheel Mann	ing Locate Values Cells		
	Speed Effect/Yellow Cyan/Magenta ☑ Fiter by Mode: Pan ✓ Sonstiges Channel Inverted Attribute	Gobo Function Speed P/T Speed Effect/Yellow White Cyan/Magenta Red ✓ Filter by Mode: 17 DMX Pan ✓ Sonstiges Channel LTP Inverted False Attribute Pan	Gobo Filter by Mode: 17 DMX Page Pan Unassigned Vote Filter by Mode: 17 DMX	Gobo Function Speed P/T Speed Sound Effect /Yellow White Blue Cyan/Magenta Red Green ✓ Filter by Mode: 17 DMX Page 1 Pan Unassigned ✓ Sonstiges Channel Channel LTP Inverted False Attribute Pan

- Shutter was moved from Unassigned to Iris/Shutter, Wheel 2
- Colour Macro was moved from Unassigned to Colour, Wheel 2
- White was on page 2. There I moved it to Unassigned, toggled to page 1, and moved it to Effect/Yellow, Wheel 1.



• Auto and Control are good candidates for page 2, Effect/YelloW attribute bank.

Please note that the Classic Pearl wheel mapping is not stored in the d4 file. If you made any changes which you want to store separately for future use then you need to export it using File -> Export -> Pearl Mapping. This will export the mapping onyl as xml file which you need to store and keep track of separately.

Your work on this page is done when nothing is in the Unassigned area, and nothing in the top boxes is red - on every page!

6. Export R20

After having entered the references and checked/adjusted the wheel mapping it is time to have a go on creating R20 files: click File -> Generate R20 Files.... Here are some prompts and solutions which might happen.

Generate Visualiser files?	most likely you will answer No - generating visualiser files is explained in Creating vis files from d4 personalities
	here it complains about the missing reference for the 2 DMX
	mode. We left this one empty intentionally. Thus click OK here to
	continue. You'd click Cancel if you'd decide to add a reference for this mode as well.

AVOSUPPORT - https://avosupport.de/wiki/

					now it's getting closer: we are prompted for name and location of the first mode (have a look at this prompt's title bar, it reads Save "8 DMX"
Save "8 DMX" (EQFU2608)				×	(EQFU2608).
← → < ↑ → Dieser PC → Dokumente → Titan → Personalities		~ õ	,○ Personalities	durchsuchen	The location
Organisieren Veuer Ordner Desktop	Änderungsdatum Typ	G	röße	111 🔹 🕐	is completely up to you
Avo_SB_BK #	Es wurden keine Suchergebnisse	gefunden.			(personally I'd
Dokumente *					prefer the
Produkte 💉					desktop). The file name is a
icke 🖈					little special:
 OneDrive 					while for the
Dieser PC					moment the
3D-Objekte Bilder					suggested
Desktop					name would
Dokumente					be okay it
Dateiname: prolight_equinox_fusion_260zr.R20				~	would be impossible to
Dateityp: Azure/Pearl/Sapphire Personality (*.R20)				~	import this
∧ Ordner ausblenden			Speichern	Abbrechen	into a real Classic
					console.
					Hence I'd
					recommend
					to change the file name to
					the 8 char
					name which
					we defined as
					reference for
					this mode, in
					this case
					EQFU2608.

900 Save "8 DMX" (EQFU2608)						×	
← → × ↑ 🚍 > Dieser PC > W7_System (E:) > Benutzer > Admir	nistrator > Desktop	~	ð P	Desktop du	rchsuchen		
Organisieren 👻 Neuer Ordner						0	
Schnellzugriff Desktop * Avo_SB_BK * Dokumente * Bilder * Produkte * icke *	Änderungsdatum Es wurden keine Sucherg	ቅም ebnisse gefunden.	Größe				Here location and name are
☑ Papierkorb Image: Second state stat						< <	as suggested.
∧ Ordner ausblenden				peichern	Abbreche	n	
							Pretty much self explanatory: there is a macro defined which uses an attribute which is not
Question The attribute, Control, is not included in the macro Reset. Write macro anyway?							included in this mode. Maybe you want to cancel here, go back, and check which macros and
							attributes are defined. In this case it is 100% correct, and we do not include the macro in this mode: click No.

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						1
🚾 Save "17 DMX" (E	EQFU2617)				×	Now we are
	> Dieser PC > Desktop >		~	Desktop durchsuchen		about to save
Organisieren 🔻	Neuer Ordner			8:: •	0	the next mode's
📌 Schnellzugriff	^ Name	Änderungsdatum	Тур	Größe		personality
Desktop	EQFU2608.R20	30.05.2022 10:30	Visualiser.R20File	7 KB		file. Please
Avo_SB_BK	*					note that it
Dokumente	1					did not
E Bilder	*					change the
Produkte	*					suggested
_	·					filename to
OneDrive						the new
Dieser PC						mode. You
3D-Objekte Bilder						need to
Deskton	Y					manually
Dateiname	C:\Users\sb\Desktop\EQFU2608.R20				~	change the
Dateityp	Azon (Pearl/Sapphire Personality (* P20)				~	filename
						again, here to
 Ordner ausblend 	len			Speichern Abbred	hen	EQFU2617.
						1

Question The channels assigned to wheels	; in this mode only utilise			This is quite common, in particular for attributes like Shutter, Gobo or Colour: in this case e.g. the shutter has a value range from 0~15 for 0pen, but it is only 0 in the d4 file - and
part of the DMX range. Note: Visualiser will require com Adjust limits to match?	Ja Nein			then the strobe range starts at 16, leaving the values 115
Prolight Equinox Fusion 260ZR - Personalit File Edit View Tools Help		I	- 🗆	not defined. This is okay for d4 (Titan)
Equinox Fusion 260ZR	Start At DMX Value 0 End At DMX Value 255 Assign One Value Auto Assign	End from Start	Pad text to	as well as R20 (Classic) files but is a problem for
f ⊕…∯ Attributes ⊕∳⊋ Pan ⊕∳⊋ Tilt ⊕∔ P/T Speed	Shutter Functions	art At DMX End At DMX		visualiser files. However I'd
Zoom Dimmer Shutter Red	/ 1 Open 0 2 Strobe % 16	0 254	Strobe	recommend to adjust the values manually if required (see Creating vis files from d4 personalities).
				The Image below shows where the ranges are set in this example.

		Here again a Pearl
		reference is missing - this is the 25ch mode which
Error The pearl reference, **, for the mode mode and continue?	*25 DMX" is invalid. Skip	we cannot export because it contains cells. Hit OK.
	OK Abbrechen	Similar prompts may show up for more nodes which you don't need as R20, e.g. the Cell mode.

What you should have learned by now: if a prompt occurs then don't just click 0K. Read it, and decide!

If everything goes well then you end up with these files:

- Prolight_Equinox Fusion 260ZR.d4
 - EQFU2608.R20
 - EQFU2617.R20

7. Finetuning/bugfixing in R20 files

There is a good chance the exported files work and can be used in your Classic console. However sometimes you might need to tweak the R20 files directly. At least now you should have read chapter 14 of the Pearl 2008 and Tiger Manual to get a coarse idea about what is going on. Then load the file into a text editor (I prefer Notepad++) an edit to your liking.

Last update: 2022/05/31 07:53 personality:create_r20_from_d4 https://avosupport.de/wiki/personality/create_r20_from_d4?rev=1653983581

One example of where you need to edit the R20 files directly is a very specific issue with the old software and 16bit dimmers: there are fixtures where not only pan, tilt or e.g. the gobo are controlled in 16bit resolution, but also the dimmer is, taking 2 Dmx channels and allowing a very fine controlling. Unfortunately the classic software has problems handling this: you can e.g. set the dimmer to 0 using the channel menu, but as soon as you hit Clear the dimmer is slightly on again: the Dimmer fine channel (LSB) resets to 254 instead of 0, effectively bringing the dimmer output to approx. 0.4%.



The fix is to make the personality with an 8 bit dimmer, and set the Dimmer fine channel to 0. Example here is the Elation Arena Par Zoom v2 15 DMX - you can use the

Titan Personality

and export the R20 files as described (hint: references are already in, only two wheels need to be mapped), or you directly check the file

ELAPZM26.R20

- this is mode 5 of this fixture, and the channel assignment is this:

Channel	Function
1	Red high
2	Red low
3	Green high
4	Green low
5	Blue high
6	Blue low
7	White high
8	White low
9	Colour Macro
10	Dimmer high
11	Dimmer low
12	Shutter
13	Dimmer Speed
14	Zoom high
15	Zoom low

Now in the ELAPZM26.R20 file find the DMX section which looks like this:

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;											
- ; DM	X cha	annel	desc	criptio	on						
; ; Co	lumn	by c	columr	n descr	riptio	on of	f ead	ch DMX channel			
		-		bank r	•						
; 2.	The	uppe	er fad	ders in	n the	bank	< (1)	or the lower fac	ders in	the b	ank (61)
; 3.						ΗTΡ,	I=Ir	istant LTP, S=16-I	oit ins	tant L	TP,
;				eable L		6 5 1 0		- \			
-			-					annels)		1 (0	1000 \
		•			• •			lly reduced by the ly to HTP channels			
				or Nor	•••			Ly to mr channet:	s), usua	ally S	et to I
							el 1	L, B=Cyan, C=Mage	nta. D=`	Yellow	
;								Immer, I=Gobol, J=			
;		L=F	ocus,	, M=Gob	002 R	otate	e, N=	-Colour Wheel 2, ()=Shutte	er, P=	Prism,
Q=Zo	om,										
;							st, 1	「=Red, U=Green, V∶	=Blue, (9=unca	tegorised)
				nnel (A	-				. + . 12		+
;10. allo		ribuτ	te nan	ne, mus	στ be	enc	Losed	d in quotes and up	οτο 12 (charac	ters
		ON N	value	of thi	is cha	annel	(0)				
				level							
		-	-	level							
;			-								
DMX											
10	1	S	1	100	1N	T	1	"Red"	255	255	0
0	0	L	2	100	1N	Т	1	"Red Low"	255	255	0
10 0	61 0	s L	3 4	100 100	1N 1N	U U	1 1	"Green" "Green Low"	255 255	255 255	0 0
9	61	L S	5	100	1N	V	1	"Blue"	255	0	230
0	0	Ĺ	6	100	1N	v	1	"Blue Low"	255	0 0	230
9	1	S	7	100	1N	0	1	"White"	Θ	Θ	Θ
0	0	L	8	100	1N	0	1	"White Low"	Θ	Θ	Θ
4	1	Ι	9	100	1N	А	1	"Colour Macro"	0	0	Θ
1	1	Н	10	100	1N	Н	1	"Dimmer"	255	0	0
0	0	S	11	100	1N	Н	1	"Dimmer Low"	255	0	0
2	61	L	12	100	1N	0	1	"Shutter"	255	0	0
8 5	1 1	L s	13 14	100 100	1N 1N	0 Q	1 1	"Dim Spd" "Zoom"	0 127	0 0	0 0
0	0	L	14	100	1N	Q	1	"Zoom Low"	127	0	0
END	Ũ	_	10	200		4	-	20011 2011		Ŭ	Ŭ
;											
;											
-											
You ca	an eas	sily fin	d the t	wo lines	for the	e dim	mer c	hannels:			

You can easily find the two lines for the dimmer channels:

1	1	Н	10	100	1N	Н	1	"Dimmer"	255	0	Θ	
0	0	S	11	100	1N	Н	1	"Dimmer Low"	255	0	0	

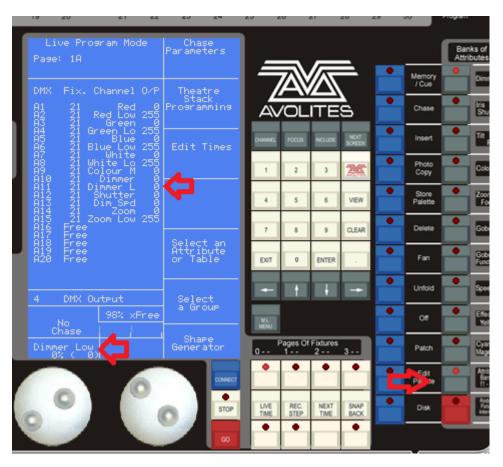
While the first line is absolutely okay the second line needs some tweaking: Nick Morris (the personality master) wrote about this

...just change Dimmer Low channel type to 8bit HTP (H), move Dimmer Low to an empty wheel slot (for example ... 11 1) and set Dimmer Low attribute type to uncategorised (0).

We change the second line so that it reads

	11	1	Н	11	100	1N	0	1	"Dimmer Low"	255	0	0	
--	----	---	---	----	-----	----	---	---	--------------	-----	---	---	--

Now having patched the edited personality the dimmer low channel is unaffected by the main dimmer attribute as it is in another category and on page 2:



8. Transfer R20 files into your console

The way how a personality file can be used very much depends from your console hardware and software. Usually the manual which came with the console should give you valuable hints. out of memory it is something along these lines:

- first and foremost: the old consoles use a disk drive in order to transfer data the very first consoles were restricted to 720k 3.5" floppies, newer ones could handle 1.44M. The 2008 series of consoles Pearl 2008 and Pearl Tiger also had USB fitted. However the USB drive needs to be FAT formatted, and iirc must not exceed 2GB in size.
- a starting point is to put the personality file into the root of the disk or USB drive, connect/insert

this into the desk, and select it when patching. This may or may not work.

- For very first Pearls there was no other way than diskettes. This is why there are more than 100 personality disks listed to download at https://personalities.avolites.com/ (select Azure, Pearl and Sapphire as console type. Note that each disk contains also a file SG.DAT (the shape file) and a file SAPPRL.LST something like the inventory, just a list of fixtures and personalities which are on this disk. Personalities not in this file are not available for the console. There was a separate application INDEX.EXE which rebuilt this file.
- Next was the internal cache: consoles fitted with enough memory could hold the most often used personalities in their internal memory. In order to import personalities into this cache you needed to create a new cache file, and then import this into the console. There was a separate application Cache Builder (cb.exe) which let you select personalities and then compressed these into a new cache file.
- And then there are the 2008 series consoles: Pearl 2008 and Pearl Tiger. As stated above they can handle USB drives if they don't exceed 2GB in size. However it needs to be a special folder structure:

```
\
\AVOLITES
    \FIXTURES
    \R20
    \(one folder per manufacturer, e.g.) ROBE (with all
the personalities in)
    \SG.DAT (the shape file)
```

There is a separate application Copy 2008 available at

www.avolites.com/software/downloads/pearl-2008-2010-tiger which creates this structure and adds the shape file.

From: https://avosupport.de/wiki/ - **AVOSUPPORT**

Permanent link: https://avosupport.de/wiki/personality/create_r20_from_d4?rev=1653983581



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